

Russian Journal of Organic Chemistry 2011 vol.47 N10, pages 1521-1526

Reactions of 2-phenyl-4,4-bis(trifluoromethyl)-4,5-dihydro-1,3,2- benzodioxaphosphhepin-5-one with phenanthrenequinone and dibenzoyl

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Abstract

Reactions of 2-phenyl-4,4-bis(trifluoromethyl)-4,5-dihydro-1,3,2- benzodioxaphosphhepin-5-one with 9,10-phenanthrenequinone and dibenzoyl gave hydrolytically unstable spirophosphoranes with five- and seven-membered rings, 2-phenyl-4,4-bis(trifluoromethyl)-4,5-dihydrospiro[[1,3,2]benzodioxaphosphhepine- 2,2'-phenanthro[9,10-d][1,3,2]dioxaphospho]-5-one and 2,4',5'-triphenyl-4,4-bis(trifluoromethyl)-4,5-dihydrospiro[[1,3,2]benzodioxaphosphhepine-2,2'-[1,3,2]dioxaphosphol]-5-one. The structure of the first of these was proved by X-ray analysis. © Pleiades Publishing, Ltd., 2011.

<http://dx.doi.org/10.1134/S1070428011100125>
